No.



9000023

TO ALL TO WHOM THESE; PRESENTS: SHALL COME;

King Agro Inc. Whereas, there has been presented to the

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED NOVEL VARIETY OF SEXUALLY REPRODUCED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART hereof, and the various requirements of LAW in such cases made and provided have BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, therefore, this certificate of plant variety protection is to grant UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLI-CANT(S) FOR THE TERM OF eighteen YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EX-CLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, R IMPORTING IT, OR EXPORTING IT, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT ETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT [. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

SOYBEAN

'TK 89'

In Testimony Manercot, I have hereunto set my hand and caused the seal of the Elaut Variety Protection Office to be affixed Washington, D.C.

31st day of December the year of our Lord one thousand nine

hundred and ninety-one.

Plant Variety Protection Office

Ward Madigan

APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE (Instructions on rewres) In NAME or APPLICANTION LLS, Q Dec., 191 In NAME OF APPLICANTION LLS, Q Dec., 191 A CODRESS (Greet and No. or R.F. D. No., City, State, and Zip Code) A CODRESS (Greet and No. or R.F. D. No., City, State, and Zip Code) P. O. BOX 69, Blissfield, M., U.S.A. 49228 Solve and Solve and No. or R.F. D. No., City, State, and Zip Code) B. KIND NAME Glycine max Leguminosae In DATE OF DETERMINATION B. KIND NAME Soybeans 1982 O. DATE OF DETERMINATION 1982 O. DATE OF DETERMINATION Solve and Sol	U.S. DEPARTMENT	FORM APPROVED: OMB NO. 0581-0055				
I. NAME OF APPLICANT DIJ. J. Q. Dec. 1941 2. TEMPORARY DESIGNATION 3. VARIETY NAME TK 89	AGRICULTURAL M	if a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information is				
KING GRALH INC. A ADDRESS (Stores and No. or R.F.D. No., City, State, and Zip Code) B. ADDRESS (Stores and No. or R.F.D. No., City, State, and Zip Code) B. ADDRESS (Stores and No. or R.F.D. No., City, State, and Zip Code) B. ADDRESS (Stores and No. or R.F.D. No., City, State, and Zip Code) B. ADDRESS (Stores and No. or R.F.D. No., City, State, and Zip Code) B. ADDRESS (Stores and No. or R.F.D. No., City, State, and Zip Code) G. GENUS AND SPECIES NAME G. GENUS AND SPECIES NAME G. GENUS AND SPECIES NAME S. KIND NAME B. KIND NAME SOYDEARS B. KIND NAME SOYDEARS 1982 AMOUNT FOR FILLING S. J.						
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SEED? (See Section 83(a) of the Plant Variety Protection Act.) Yes (If "Yes," answer items 16 and 17 below) No 16. DOES THE APPLICANT(S) SPECIFY THAT THIS VARIETY BE LIMITED AS TO NUMBER OF GENERATIONS? Yes No Foundation Registered Certified 17. If "YES" TO ITEM 16, WHICH CLASSES OF PRODUCTION BEYOND BREEDER SEED? Foundation Registered Certified No 18. DID THE APPLICANT(S) PREVIOUSLY FILE FOR PROTECTION OF THE VARIETY IN THE U.S.? Yes (If "Yes," give date) No 19. HAS THE VARIETY BEEN RELEASED, OFFERED FOR SALE, OR MARKETED IN THE U.S. OR OTHER COUNTRIES? Yes (If "Yes," give names of countries and dates) No 20. The applicant(s) declare(s) that a viable sample of basic seeds of this variety will be furnished with the application and will be replenished upon request in accordance with such regulations as may be applicable. The undersigned applicant(s) is (are) the owner(s) of this sexually reproduced novel plant variety, and believe(s) that the variety is distinct, uniform, and stable as required in Section 41, and is entitled to protection under the provisions of Section 42 of the Plant Variety Protection Act. Applicant(s) is (are) informed that false representation herein can jeopardize protection and result in penalties.	14. CHECK APPROPRIATE BOX FOR EACH ATTA a. Exhibit A, Origin and Breeding History o b. Exhibit B, Novelty Statement. c. Exhibit C, Objective Description of Varie d. Exhibit D, Additional Description of Var e. Exhibit E, Statement of the Basis of App	CHMENT SUBMIT f the Variety (See ty (Request form iety. licant's Ownership	TTED Section 52 of the Plant Variety Pro from Plant Variety Protection Offi p.	otection Act.)		
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Soul VI m Sep 8 21/8	·	esentation herei	n can jeopardize protection and			
SIGNATURE OF APPLICANT DATE	SIGNATURE OF APPLICANT	lu		Dep / 21/8		
	SIGNATURE OF APPLICANT			DATE		

EXHIBIT 'A'

Origin and Breeding History of the Variety

- 1) KG1768 was developed by King Agro, a division of Kingroup Inc., Chatham, Ontario, Canada. This variety originated from a hand-pollinated cross of Premier x Vinton made in 1978. The F₁, F₂, F₅ and F₆ generations were grown in Ontario and the F₃ and F₄ grown in Belize, Central America. Early generations were advanced using a modified single seed descent technique. KG1768 was F₆ derived and was yield tested in 1985-1986. The variety was selected for superior agronomic traits and large seed size.
- 2) In 1979, single plants of the variety were reselected and grown in a winter nursery in Belize, C.A. Rows conforming to a standard were harvested and bulked the following year to establish breeder seed. The genetic make-up of the variety was uniform and stable in subsequent generations.
- 3) KG1768 was placed in yield trials in 1985. Data is attached for the two years of trial data.

EXHIBIT 'B'

Novelty Statement

Novelty is based on the unique combination of the following charactistics:

KG1768 is a large-seeded cultivar most similar to Elgin except KG1768 is one day earlier, has a .5 point better lodging rating, is 4.3 gms per 100 seeds heavier, has 3.3 percentage points higher protein, .5 percentage points lower oil and has yellow hilum, white flowers, grey pubescence instead of black hilum, purple flowers, tawny pubescence.

Official Ontario Performance Data 1985-1986

Entry	Maturity (days)	100 seed Wt (g)	Protein (%)	0il (%)	Hilum color	Flower color	Pubescence color
KG1768	126	23.8	43.2	19.2	Y	W	G
Elgin	127	19.5	39.9	19.7	Bl		T

Average Performance of KG1768 soybean in the Ontario Official soybean cultivar trials 1985-1986

Variety	Lodging	Maturity	Plant Ht.	100 seed Wt.	Protein	0il	Yield
	(1-5)	(days)	(cm)	(g)	(%)	(왕)	(kg/ha)
KG1768	1.6	126	77	23.8	42.3	19.2	3413
B203	1.8	124	79	16.5		19.6	3556
Elgin	2.1	127	77	19.5		19.7	3793

U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE LIVESTOCK, MEAT, GRAIN & SEED DIVISION PLANT VARIETY PROTECTION OFFICE BELTSVILLE, MARYLAND 20705

OBJECTIVE DESCRIPTION OF VARIETY SOYBEAN (Glycine max L.)

NAME OF APPLICANT(S)	TEMPORARY DESIGNATION	LANGET AND THE STATE OF THE STA
NAME OF APPLICANT(S) AGRO JLS, & Dec. 1991 KING GRAIN INC.	KG1768	TK 89
ADDRESS (Street and No., or R.F.D. No., City, State, and Zip Cod		
D O D CO	6 /	FOR OFFICIAL USE ONLY
Blissfield, MI U.S.A. 49228		PVPO NUMBER
Cheesel		9000023
Choose the appropriate response which characterizes the var	iety in the features described l	below. When the number of significant digits
in your answer is fewer than the number of boxes provided,	place a zero in the first box w	hen number is 9 or less (e.g., 0 9).
Starred characters * are considered fundamental to an adequent when information is available.	uate soybean variety descriptio	on. Other characters should be described
1. SEED SHAPE:		
4		
1 = Spherical (L/W, L/T, and T/W ratios = < 1.2) 3 = Elongate (L/T ratio > 1.2; T/W = < 1.2)	2 = Spherical Flattened (4 = Elongate Flattened (I	L/W ratio > 1.2; L/T ratio = < 1.2) L/T ratio > 1.2; T/W > 1.2)
2. SEED COAT COLOR: (Mature Seed)		
1 1 = Yellow 2 = Green 3 = Brown	4 = Black 5 = Other (:	Specify)
3. SEED COAT LUSTER: (Mature Hand Shelled Seed)		
1 = Dull ('Corsoy 79'; 'Braxton') 2 = Shiny ('Nebso	y'; 'Gasoy 17')	
(4. SEED SIZE: (Mature Seed)		
	en e	
2 4 Grams per 100 seeds	•	
5. HILUM COLOR: (Mature Seed)		
2 1 = Buff. 2 = Yellow 3 = Brown 4	= Gray 5 ≈ Imperfect Blac	k 6 = Black 7 = Other (Spec fy)
6. COTYLEDON COLOR: (Mature Seed)		
1 1 = Yellow 2 = Green		
7. SEED PROTEIN PEROXIDASE ACTIVITY:		
1 1 - Low 2 - High		ing specifical production of the second contract of the second contr
8. SEED PROTEIN ELECTROPHORETIC BAND:		
1 = Type A (SP1 ⁸) 2 = Type B (SP1 ^b)	en e	
9. HYPOCOTYL COLOR:		
	bronze band below cotyledons ('W	oodworth'; 'Tracy')
0. LEAFLET SHAPE:	•	
3 1'= Lanceolate 2 = Ovat 3 = Ovate	4 = Other (Specify)	

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(Edition of 2-82 is obsolete.)

Sin See a	900023
11. LEAFLET SIZE:	
	Medium ('Corsoy 79'; 'Gasoy 17')
12. LEAF COLOR:	
1 = Light Green ('Weber'; 'York') 2 = (3 = Dark Green ('Gnome'; 'Tracy')	Medium Green ('Corsoy 79'; 'Brexton')
★ 13. FLOWER COLORES	
1 - White reasons 2 - Purple 3 - White	e with purple throat
★ 14. POD COLOR:	
2 1 = Ten 2 = Brown 3 = Black	
★ 15. PLANT PUBESCENCE COLOR:	
1 1 = Gray 2 = Brown (Tawny)	The first of the second of the
16. PLANT TYPES:	
	itermediate ('Amcor'; 'Braxton')
17. PLANT HABIT:	
	mi-Determinate ('Will')
18. MATURITY GROUP:	
0 4 1-000 2-00 3-0 4-I 9-VI 10-VII 11-VIII 12-I	5=H 6=H 7=IV 8=V
19. DISEASE REACTION: (Enter 0 = Not Tested; 1 = Susceptible; 2	Resistant)
BACTERIAL DISEASES:	
* Bacterial Pustule (Xanthomonas phaseoli var. sojensis)	
Bacterial Blight (Pseudomones glycines)	· The Control of the
★ 0 Wildfire (Pseudomonas tabaci)	
FUNGAL DISEASES:	
* 0 Brown Spot (Septoria glycines)	A CONTRACTOR OF THE PROPERTY O
Frogeye Leaf Spot (Cercospora sojina)	the end of the second of the s
* 0 Race 1 7 0 Race 2 : 0 Race 3 0	Race 4 0 Race 5 0 Other (Specify)
Terget Spot (Corynespora cassilcola)	
Downy Mildew (Peronospora trifoliorum var. manshurica)	and the property of the contract of the contra
Powdery Mildew (Microsphaera diffusa)	
Brown Stem Rot (Cephalosporium gregatum) Stem Canker (Diaporthe phaseolorum var. caulivora)	o de la caractería de la c La caractería de la carac

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19.	DISEA	SE REACTIO	N: (Enter 0 = Not Tested; 1 =	Susceptible; 2 =	Resistant) (Continued)		
1			ES: (Continued)			电间隔量 医电子内侧 医电流	
*	0		m Blight <i>(Diaporthe phaseolor</i>)				A Part of the state of the stat
	0		Stain (Cercospora kikuchii)	13., 10,00,			
	0		Root Rot (Rhizoctonia solani,				
. ,		Phytophtho	ra Rot <i>(Phytophthora megaspe</i>	rma var. sojae)			
*	0	Race 1		ace 3 0	Race 4	ace 5 0 Race	6 0 Race 7
	0	Race 8	0 Race 9 0 0	ther (Specify)			
	VIRA	L DISEASES	:		er 1900-ber 1900-bergelet der	and the same of the fifth	
		Bud Blight (Tobacco Ringspot Virus)		Na nakang pasah	The state of the s	
-		Yellow Moss	ic (Bean Yellow Mosaic Virus)	** * * * *	Maria Maria Daga Sarah		sa galaga sa da ga
*.	0	Cowpea Mos	aic (Cowpea Chlorotic Virus)				
		Pod Mottle (Bean Pod Mottle Virus)				
*	0	Seed Mottle	(Soybean Mosaic Virus)				
	NEMA	TODE DISE	ASES:				
		Soybean Cys	t Nematode <i>(Heterodera glycin</i>	es)			
*	0	Race 1	0 Race 2 0 Ra	ce 3 0	Race 4 0 0s	ther (Specify)	
		Lance Nemat	ode (Hoplolaimus Colombus)				
*	0	Southern Ro	ot Knot Nematode (Meloidogy)	ne incognita)	4		
*	0	Northern Roc	ot Knot Nematode (Meloidogy)	ne Hapla)			
		Peanut Root	Knot Nematode <i>(Meloidogyne</i>	arenaria)			
			matode (Rotylenchulus renifon		2		
ľ	0		ASE NOT ON FORM (Specify				•
	_ <u></u>						·
	HYSIOL	OGICAL RE	SPONSES: (Enter 0 = Not Ter	ited; 1 = Suscept	ible; 2 = Resistant)		
*	1	Iron Chlorosis	on Calcareous Soil				
Į	0	Other <i>(Specif</i>)	//		····		
21, IN	SECT (REACTION:	(Enter 0 = Not Tested; 1 = Sus	ceptible; 2 = Re:	sistant)		
Į	0,	Mexican Bean	Beetle (Epilachna varivestis)		•		egeneral (m. 1941) Guardina
	0	otato Leaf H	opper (Empoasca fabae)				ATTACA TELEVISION CONTRACTOR OF THE CONTRACTOR O
ſ	0	ther <i>(Specify</i>	·)			Cash Carlo	
22. IN			RIETY MOST CLOSELY RES	PARA PA TILAY			
	CHARA		NAME OF VARI			<u> </u>	
	nt Shap		B203	= I Y	CHARACTER		ME OF VARIETY
	f Shape		B203		Seed Coat Luster	B203	
	f Color		B203		Seed Size Seed Shape	Vint	
Lea	f Size	1 1 1 1 to	B203		Seed Snape Seedling Pigmentati	vint on B203	
, set in						Sir B203	· · · · · · · · · · · · · · · · · · ·

23. GIVE DATA FOR SUBMITTED AND SIMILAR STANDARD VARIETY: Paired Comparison Data

VARIETY	NO. OF DAYS	PLANT LODGING	CM PLANT	LEAFL	ET SIZE	SEED CON	TENT	SEED SIZE G/100	NO. SEEDS/
	MATURITY	SCORE	HEIGHT	CM Width	CM Length	% Protein	% OII	SEEDS	POD
Submitted	126	1.6	77	9.0	12.6	43.2	19.2	23.8	2.5
Name of Similar Variety	127	2.1	77	8.5	11.0	39.9	19.7	19.5	2.5

LGIN

PUBLICATIONS USEFUL AS REFERENCE AIDS FOR COMPLETING THIS FORM:

- 1. Caldwell, B.E., ed. 1973. Soybeans: Improvement, Production, and Uses. Amer. Soc. Agron. Monograph No. 16.
- 2. Buttery, B.R. and R.I. Buzzell. 1968. Peroxidase activity in seeds of soybean varieties. Crop Sci., 8: 722-725.
- 3. Hymowitz, T. 1973. Electrophoretic analysis of SBTI-A2 in the USDA soybean germplasm collection. Crop Sci., 13: 420-421.
- 4. Payne, R.C. and L.F. Morris. 1976. Differentiation of soybean cultivars by seedling pigmentation patterns. J. Seed Technol. 1: 1-19:-

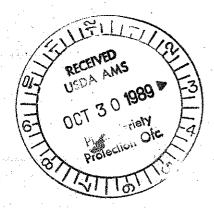


EXHIBIT 'E'

Basis of Applicants Ownership

The breeder of this soybean variety, Norman R. Bradner, is an employee of King Agro, a division of Kingroup Inc., which is a wholly owned subsiduary of Sanofi Inc. King Grain Inc. is also a wholly owned subsiduary of Sanofi Inc.